

**WHAT IS CLAIMED IS:****1. A shoe or boot comprising:**

- an inner moisture transfer material;**
- a nonwoven added with open cell foam material;**
- a thermal insulating layer; and**
- an outer moisture transfer material waterproofed by a waterproof film.**

**2. The shoe or boot according to claim 1, wherein the open cell foam is hydrophilic and breathable.**

**3. The shoe or boot according to claim 1, wherein at least two of the four layers defined therein are attached to each other by lamination.**

**4. The shoe or boot according to claim 1, wherein at least two of the four layers defined therein are attached to each other by mechanical bonding.**

**5. The shoe or boot according to claim 1, wherein the outer moisture transfer material includes a fabric that is structurally knitted or woven to repel water.**

**6. The shoe or boot according to claim 1, wherein the open cell foam has reversible thermal enhanced properties.**

7. The shoe or boot according to claim 1, wherein the nonwoven has reversible thermal enhanced properties.
8. A shoe or boot comprising:
- an inner moisture transfer material; and
  - a thermal nonwoven composite formed from a combination of synthetic fibers and an open-cell foam material.
9. The shoe or boot according to claim 8, wherein the thermal nonwoven composite has reversible enhanced thermal properties;
10. The shoe or boot according to claim 8, further comprising an outer layer attached to the thermal nonwoven composite, the outer layer comprising encapsulated synthetic fibers.
11. A shoe or boot comprising:
- an inner moisture transfer material;
  - a nonwoven having reversible enhanced thermal properties;
12. The shoe or boot according to claim 11, wherein the nonwoven has been combined with an open cell foam that has reversible enhanced thermal properties.
13. A shoe or boot comprising:

**an inner moisture transfer material;**

**an open cell foam material; and**

**a spacer material attached to the foam material.**

**14. The shoe or boot according to claim 13, wherein the spacer material has reversible enhanced thermal properties.**

**15. The shoe or boot according to claim 13, wherein the open cell foam has reversible enhanced thermal properties.**

**16. The shoe or boot according to claim 13, wherein the open cell foam is combined with fibers and has reversible enhanced thermal properties.**

**17. The shoe or boot according to claim 1, wherein at least one of the nonwoven or the foam has been treated with a chemical ionization.**

**18. The shoe or boot according to claim 8, wherein the thermal nonwoven composite has been treated with a chemical ionization.**